



## PATENT ABSTRACTS OF JAPAN

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AAROISU NIIDAABIIZERU(54) NERVOUS DISEASE SYMPTOM-TREATING  
AGENT COMPRISING PTERIN DERIVATIVE

(57) Abstract:

PURPOSE: To provide an agent for treating performance disorders, concentration disorders, paroxysmal anesthesia, akinesia, shivering or emotional unstable type atrabiliary symptom, i.e., nervous diseases, containing a specific pterin derivative as an active ingredient.

CONSTITUTION: A nervous disease-treating agent contains a compound of formula I [ $R^1$ ,  $R^2$  are H or together form a single bond; when  $R^1$ ,  $R^2$  are the H,  $R^3$  is  $-CH_3$ , L-erythro- $CH(OH)CH(OH)CH_3$ ,  $-CH(OCOCH_3)CH(OCOCH_3)CH_3$ ; when  $R^1$ ,  $R^2$  are the single bonds,  $R^3$  is  $-COCH(OH)CH_3$ ]. The compound of formula I includes L-erythro-5,6,7,8-tetrahydrobiopterin of formula II, L-sepiapterin of formula III, 1',2'-diacetyl-5,6,7,8-tetrahydrobiopterin of formula IV and 6-methyl-5,6,7,8-tetrahydropterin of formula V. These are effective for the treatment of Parkinson's disease patients and depression patients.

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